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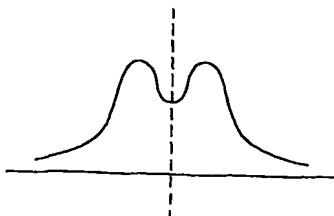
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(54) Title: APPARATUS FOR CUTTING GLASS PLATE



(57) Abstract: Disclosed herein is an apparatus for cutting a glass plate. The apparatus comprises a cracking means for forming a minute crack at a point on the glass plate where the cutting is started, at least one scribing means using a laser beam absorbed by the glass plate, at least one quenching means using a quenching fluid after irradiation of the laser beam, a breaking means using the laser beam. The breaking means comprises a laser oscillator, a reflection mirror and a focusing lens. The focusing lens has at least two or more focal lengths. The apparatus may further comprise a photo mask formed with light transmission openings for transmitting a part of the laser beam to be irradiated on the glass plate instead of the focusing lens. With the apparatus of the present invention, the problems caused by the conventional lens, such as a reduced straightness of a cutting line or a rough cutting plane, can be prevented, thereby providing a clean cutting plane.

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